

For supplying her Majesty's several Dockyards with 11,000 loads of African Timber.

For the Buildings intended to be erected at King's Langley, for the Committee of the Bookellers' Provident Institution.

COMPETITIONS.

Plans are required for Laying out and covering with Villa residences about 20 Acres of land having a frontage of about half-a-mile to the Queen's-road, Richmond, Surrey, extending from Spring-grove towards Richmond-hill. Premiums will be given of 25 guineas for the most approved plan, and 15 guineas for the second.

The Committee for the establishment of Public Parks, Walks, &c., at Manchester, offer two prizes, one of 50 guineas and the other of 25 guineas, for the best and second best set of Plans (with estimates), for the laying out, &c., of the sites already purchased by them.

The Board of Guardians of the Bridlington Union offer a premium of 10*l.* for a Plan and Specification of a Workhouse, the expense of which is not to exceed 2,000*l.*, and to accommodate 150 inmates.

APPROACHING SALES OF WOOD, &c.

BY AUCTION.

At Little Bentley Hall, Essex, 2,000 straight and good Larch Fir.

BY TENDER.

In the Plantations of the Duke of Montrose, situate in the Parishes of Drymen and Buchanan, Stirlingshire: many Thousands of Larch Trees of some size, adapted for Railway Sleepers, Roofing and Joisting, and other purposes.

TO CORRESPONDENTS.

"A. A."—Thanks.

"A. J. G." (Sudbury).—Inquiries into private character are beyond our province. Even asking the question might injure the party named.

"Stone groins."—A subscriber asks for an account of the construction of stone groins "beginning with the common four-ribbed, with the means of setting out the same for workmen, and the joining of the masonry." We shall be glad to receive communications on the subject.

"Wood Models to draw from."—A correspondent wishes to know if any person in London makes such, or of paper; plaster of Paris being so brittle.

"Sir in the School of Design."—Mr. J. Strudwick denies the statement that he has not been a student in the School for twelve months. We have not space for his letter.

"A Student," should have sent us a sketch; without it we cannot judge.

"X. Y. Z."—If the house be rebuilt under the provisions of the Buildings Act, our correspondent is not bound to provide a spout: if otherwise, we apprehend he cannot legally stop an ancient water-way without providing a substitute.

"W. G."—The height of a building, to settle the rate, is to be ascertained by measuring from the surface of the lowest floor in the building. Not knowing the rate of the addition about to be made, we cannot tell if the wall in question would be sufficient. Buildings or offices, whether attached to or detached from the buildings to which they belong, are to be deemed as buildings of the rate to which they would belong if they had been built separately. Schedule C, part VII.

"F. T. D."—We shall be glad to hear from him again.

"Duty on Bricks."—A correspondent asks whether a drawback is allowed on bricks made by a proprietor on his own estate for his own use. We believe there is not, excepting when used for drainage, when they must be marked "drain," and not used for any other purpose under heavy penalty.

"A New Subscriber."—The Independent Chapel at Holloway is mentioned in p. 142 and p. 166, ante. St. Peter's Church, Islington, has not been spoken of in THE BUILDER.

"W. J. W."—The case shall be engraved.

"Kite's System of Ventilation," "N," and

"B. B." next week.

"Received."—"Friend to the Builder," (Wisbeach). "Plan of Buildings for Working Classes; J. Boulton, Architect." "Dolman's Magazine" No. VI. (commencing a new Volume); "Quarterly Journal of the Geological Society, No. III." (Longman); "Old England, Part XX." (Knight); "Pictorial Gallery of Arts, Part VII." (Knight); "Medical Times" for July; "A Peep into Architecture," by Eliza Chalk (Bell, Fleet-street). "An Old Subscriber."

ERRATUM.—The quotation by Mr. Anyell in his paper read at Institute of Architects, reported at p. 351, ante, was from Empedocles (the Agrigentine philosopher) and not from Pericles, as stated.

Correspondents who threaten to cease to be subscribers because we differ in opinion from them or refuse to insert communications which would really injure them in public opinion, must think meanly of us if they consider the threat likely to alter our course of proceeding. Our duty is to give sound information and honest opinions, and we will perform this to the extent of our ability without respect to persons.

ADVERTISEMENTS.

BASHEN Primed and Glazed, at 7*d.* per foot.—CROWN-GLASS, 6*d.* per foot.—WHITE LEAD, 2*s.* per cwt.—PIPE and SHEET LEAD (cut) 21*s.* 6*d.* per cwt.

J. WINCH, late Foreman to R. Cogan, begs to acquaint the Trade that he can supply them with WINDOW GLASS, SHEET LEAD, PIPE, COLOURS, WHITE LEAD, &c., of the best quality at the lowest prices. CARVERS and GILDERS, CABINET MAKERS, and others are respectfully informed that their glass is looked out with peculiar care.—Every inquiry immediately answered, and equal attention paid to small or large orders. L.A.M. SHADES and GAS GLASSES at wholesale terms.—Address, 15, High-row, Knightsbridge.

MONS. BOUTIGNY'S EXPERIMENTS ON THE FREEZING OF WATER IN RED-HOT CRIBBLES, &c., will be repeated by Dr. Byan, in his Lectures on the CAUSES OF EXPLOSIONS IN STEAM-BOILERS, daily at half-past Three, and in the Evenings of Mondays, Wednesdays, and Fridays, at Nine, at the ROYAL POLYTECHNIC INSTITUTION, The ATMOSPHERIC RAILWAY, carrying from Six to Eight Visitors at once. Lectured upon by Professor Bachbofner, and exhibited daily, and in the Evenings. The art of SWIMMING and DIVING illustrated by a Youth Eight and a half years of age, the Son of Capt. Stevens, the celebrated teacher of Swimming, on Mondays, Wednesdays, and Fridays at Two o'clock, and on the Evenings of Tuesdays and Thursdays, at half-past Eight. All the other popular Exhibitions and interesting Works as usual.—Admission, One Shilling; Schools, half-price.

PRIZES IMPORTANT TO INVENTORS AND PATENTEES.

A GOLD MEDAL, value 100*l.* and a SILVER MEDAL, value 50*l.*, will be given by Mr. M. JOSCELIN COOKE. The Gold medal for the best Patent, and the Silver medal for the best Design taken out or Registered at the OFFICE for PATENTS and DESIGNS, 20, Half-Moon-street, between the 1st of November, 1864, and the 1st of June, 1865. The Prizes will be awarded by competent judges on the 10th June, 1865. The conditions to be observed, together with instructions, charges, and every information for obtaining Patents in England or Foreign Countries, or Registering Designs, will be forwarded gratis, on application to Mr. M. JOSCELIN COOKE, at the Office for Patents and Registration of Designs, 20, Half-Moon-street, Piccadilly, London.

PAINTING BRUSHES OF SUPERIOR QUALITY. TO PAINTERS, BUILDERS, &c.

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MANUFACTURERS,
11, GREAT MARLBOROUGH-STREET, LONDON.
Offer to Painters, Builders, &c., Painting Brushes of a quality far superior to those generally offered for sale, to which they beg to call the attention of all who prefer quality and durability to apparent cheapness.
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Tear Brushes and Masons' Brushes, and all other Brushes used by Painters and Artists.
Lists of Prices of Painting Brushes, and of all other kinds of Brushes, forwarded on application. Established 1777.

VENTILATION.

"A most ingenious, simple, and effective plan." Mr. Reid's Lecture on Ventilation, delivered, June 7, 1864, before the Mechanics' Institute, Liverpool.

BAILLIE'S PATENT TRANSPARENT

VENTILATOR. ventilates rooms or public buildings without causing unpleasant draughts of air—may be fixed as easily as a pane of glass, whose place it supplies—does not damage blinds, shutters, or other fixtures belonging to windows—most useful to public places of every description, especially smoking and coffee rooms, and moreover a simple remedy for smoky chimneys. This article may be obtained from all respectable glass dealers in London; Mr. Edgar Parks, Ironmonger, 140, Fleet-street; Messrs. Stock and Sharp, and Mr. Samuel Beale, Birmingham; Messrs. John Hall and Sons, and Messrs. Doss and Williams, Bristol; Messrs. Thos. and Will. Stock, Liverpool; Messrs. Davidson and Armstrong, Manchester; Mr. James Bell, Glasgow, &c.; who have models to explain its action, and will be glad to give any further information; also to be seen in use at Mr. Fred. Smith's, the Alton, 259, Blackfriars-road; Mr. Edward Baillie's, 15 B, Cumberland-market, Regent's Park; Mr. Seaton's, Dublin Castle, Park-street, Camden Town; 2, Coleman-street-buildings, Moorgate-street, and at the office of this Paper.

THE PROJECTED RAILWAYS.

ANALYSIS OF THE PATENT METALLIC

SAND, or English Portland Cement, used in the foundations of the New Houses of Parliament, the great Tunnel on the Birmingham Railway, Sea-wall on the Great Western Railway in Devonshire, and other important works referred to more particularly in the prospectus.

Silica	49	Lime	6
Oxide of Iron	32	Magnesia	2
Alumina	3	Zinc	3

Artesian and Carbonate of Copper . . . 9
Price in Swazana, free on board, 6*d.* per bushel, or supplied in London at 1*s.* per bushel.

Used as an external water the Metallic Sand Cement is unaffected by frost or wet; its appearance is resembling the best Portland Stone, requiring neither colour nor paint, and is entirely free from vegetable cracks and blisters.—Further Particulars on application to Mr. C. K. DYER, 4, New Broad-street, London; and at the Metallic Sand Wharf, King's-road (opposite Pratt-street), Camden Town.

TO ENGINEERS, ARCHITECTS, AND CON. TRACTORS.

GREAVES'S LIAS CEMENT and GROUND BLUE LIAS LIME, at 1, South Wharf, Paddington, London, and Works, Southam, Warwickshire. Agent for Liverpool, Mr. WYLLIE, 56, Gloster-street; ditto for Manchester, Mr. J. THOMPSON, Back King-street; ditto for Chester, Mr. J. HARRISON, Lines Hall-street.

ATKINSON'S CEMENT.—The public is respectfully informed, that the price of this very excellent Cement, which has now been in use for Architecture and Engineering works upwards of thirty years, is reduced to 3*s.* 3*d.* per bushel, and may be had in any quantity at Wyatt, Parker, and Co.'s Wharf, Holland-street, Surrey side of Blackfriars-bridge.

N.B.—This Cement being of a light colour, requires no artificial colouring or painting, and may be used for stucco with three parts its own quantity of sand.

MARTIN'S PATENT CEMENT.

TO ARCHITECTS, BUILDERS, AND PAINTERS IN FRESKO.

STEVENS and SON, PATENTEES and SOLE MANUFACTURERS, beg respectfully to announce that this beautiful Cement has now arrived at a degree of excellence far surpassing their most sanguine expectations. For all internal work it possesses a great superiority over every article hitherto in use; it is now being used extensively by Government in the British Museum and other public buildings. IT DOES NOT THROW OUT ANY SALT, but presents a beautifully plain and perfect surface, which may be painted upon dry work within four days without peeling. It is equally applicable for walls or lath, for mouldings, architraves, skirting, or flooring; and is admitted to form the best ground for fresco painting, having been used for many of the prize frescos lately exhibiting in Westminster Hall. It will bear an intense heat without cracking, and for hardness, durability, and economy, cannot be equalled.

166, DRURY-LANE, LONDON.

Agent for Liverpool and Manchester, Mr. R. Part, 11, Atherton's-buildings, Dale-street, Liverpool.

KEENE'S PATENT MARBLE

CEMENT.—The Patentees of this composition beg to refer to the British Museum, the Royal Exchange, the new works at Bethlem Hospital, Greenwich Hospital, and the Coliseum in the Regent's-park, as buildings finished or in progress, in which Keene's Cement has been used as an internal stucco. Its superiority to common plastering consists in its extreme hardness, and the rapidity with which it dries, which qualities fit it to receive paint or other finishing sooner than other water Cement.

When employed for skirtings, architraves, and other mouldings, in place of wood, it checks dry-rot, is impervious to vermin, prevents the spread of fire, and is more economical in its application than the material for which it thus becomes the substitute.

Confirmation of these statements is to be found in the almost universal adoption of Keene's Cement for Skirting and Hall flooring in the new houses on the Hyde Park Estate, where its application is to be seen to the fullest advantage.

In Liverpool and Manchester, Keene's Cement has in several cases been used for the covering of the fire-proof warehouse floors, where its lightness and hardness give it the preference over tiles and flagging, which are much heavier, and necessarily leave the floor intersected with numerous joints, whilst Keene's Cement is laid down in one unbroken surface.

The high polish and marble-like hardness of which this Cement is susceptible render it the most suitable material for the manufacture of Sengliola.

Patentees, J. B. WHITE & SONS, Millbank-street, Westminster, Manufacturers of Roman and Portland Cement.

Depot in Liverpool, 36, Seal-street; James Woods, Agent.

TO ARCHITECTS, ENGINEERS, CONTRACTORS, BUILDERS, MASON, AND PLASTERERS, MERCHANTS, SHIPPERS, AND THE PUBLIC IN GENERAL.

JOINS and CO.'S PATENT STUCCO

CEMENT.—The following are the positive advantages possessed by this Invention over every Cement hitherto introduced.—It will effectually resist damp. It will never vegetate nor turn green, nor otherwise discolour. It will never crack, blister, nor peel off. It will form a complete Stucco coating to any Building covered with it. It closely resembles Stone that it is impossible to detect it. It never requires either to be painted or coloured. It will keep fresh and good in the case in any climate for any number of years. It is the only Cement that can be depended upon for export. It is the only Cement that can be used with confidence by the sea-side. It may be used in the hottest or coldest climates at any season. It will adhere to any substance, even to Wood, Iron, or Glass. It will carry a larger Proportion of Sand than any other Cement. It matures by age, and becomes perfect when other Cements begin to perish. It may be worked through the Winter, as frost has no effect upon it. It may be used on the Inner Walls of new Houses, which may be papered over or painted directly. Roofs laid or pointed with this Cement will remain undamaged by the severest Storms. Any Plasterer may apply it, the Instructions for use being very clear and distinct. The first cost of this material does not exceed that of the cheapest Cement now in use; but with all the above-named extraordinary and valuable advantages, nothing can approach it in point of economy.

Architects and Builders who have used this Cement have declared that it requires only to be known, to be universally preferred.

Specimens may be seen, and a Prospectus fully describing the Cement and its mode of application, together with a volume of Testimonials from every part of the Kingdom, may be obtained on application to MANN and CO., SOLE AGENTS for the Patentees, A. Madden-lane, Queen-street, Chesham, London; of whom also may be had JOINS and CO.'S PATENT STONE COLOUR STUCCO PAINT, especially intended for Painting over exterior Walls of Houses that have been covered with Roman or other Cements, and which have become dirty and discoloured. It is in every way better suited for this purpose than White Lead Paint, which will frequently come off in flakes, being in direct chemical opposition with Cement; whereas JOINS and CO.'S PATENT PAINT, having an affinity for Stucco, binds itself with it, stopping the action, thereby rendering the wall proof against weather, and in the finish producing a pure stone-like effect, producible by no other Paint whatever. It is cheap in its application, and may be used by any Painter, in any climate, even in the most exposed Marine situations.